6220 9525260

FIG 1A
PRIOR ART

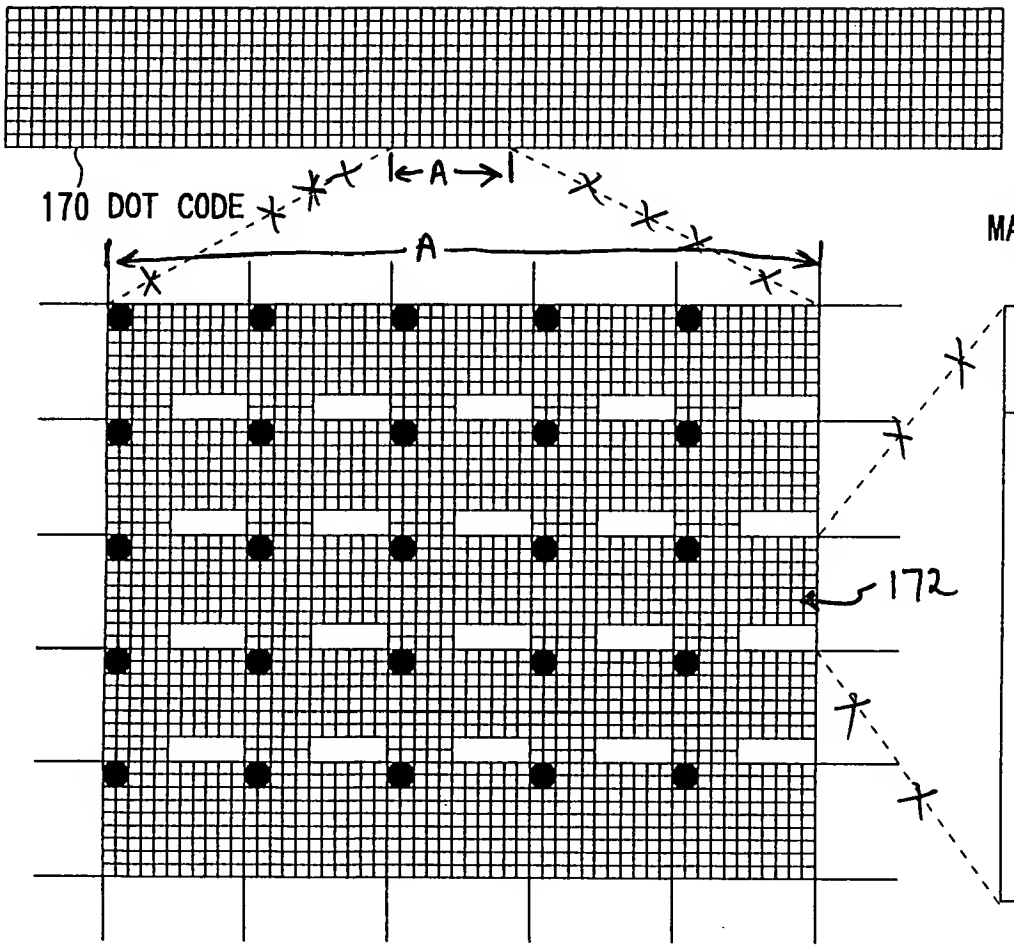


FIG 1B
PRIOR ART

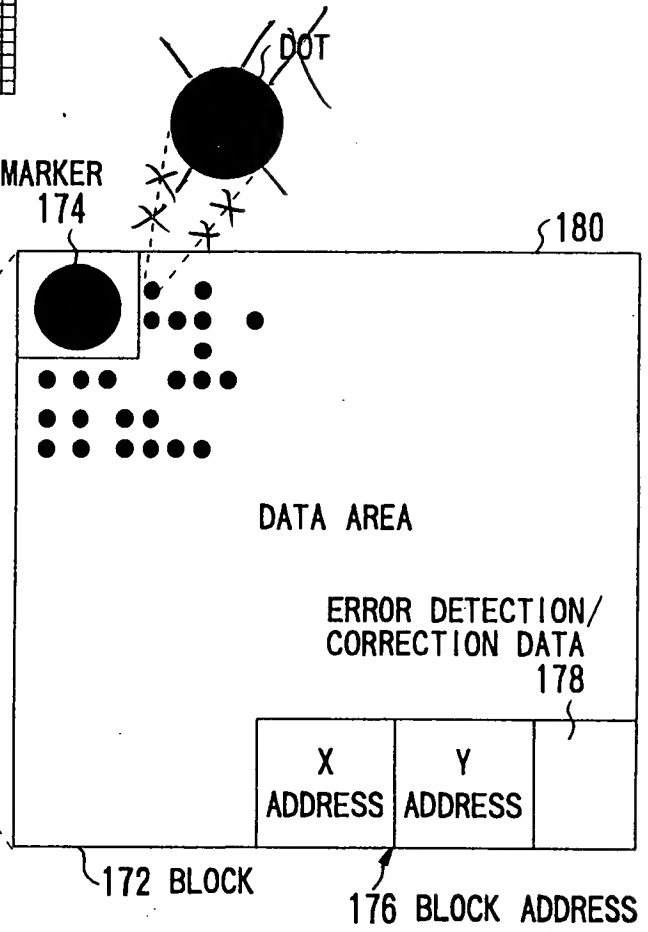


FIG 1C
PRIOR ART

~~FIG. 1 PRIOR ART~~

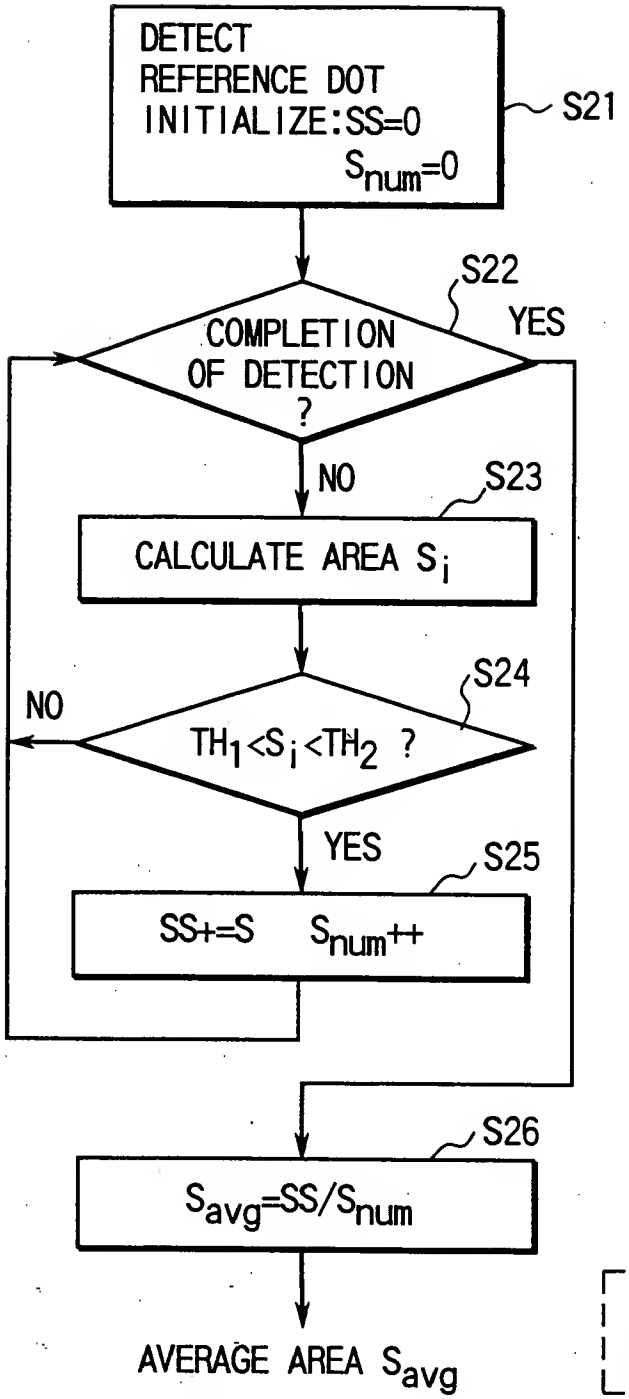


FIG. 22

FIG 23C

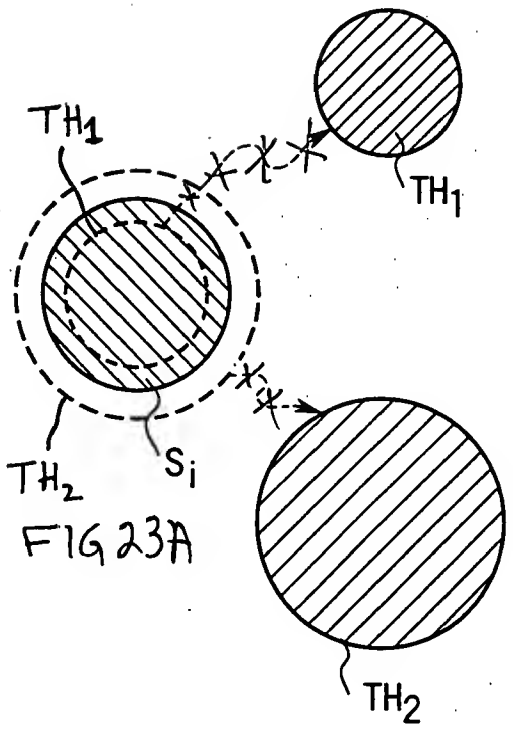
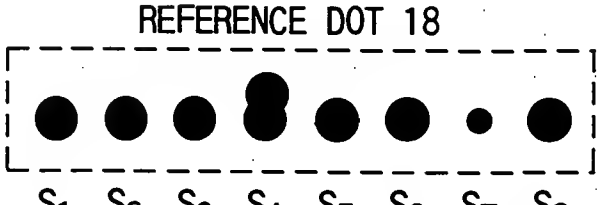


FIG 23A

FIG. 23B



$S_4 \geq TH_2$

$S_7 \leq TH_1$

$$S = \frac{S_1+S_2+S_3+S_5+S_6+S_8}{6}$$

FIG. 24

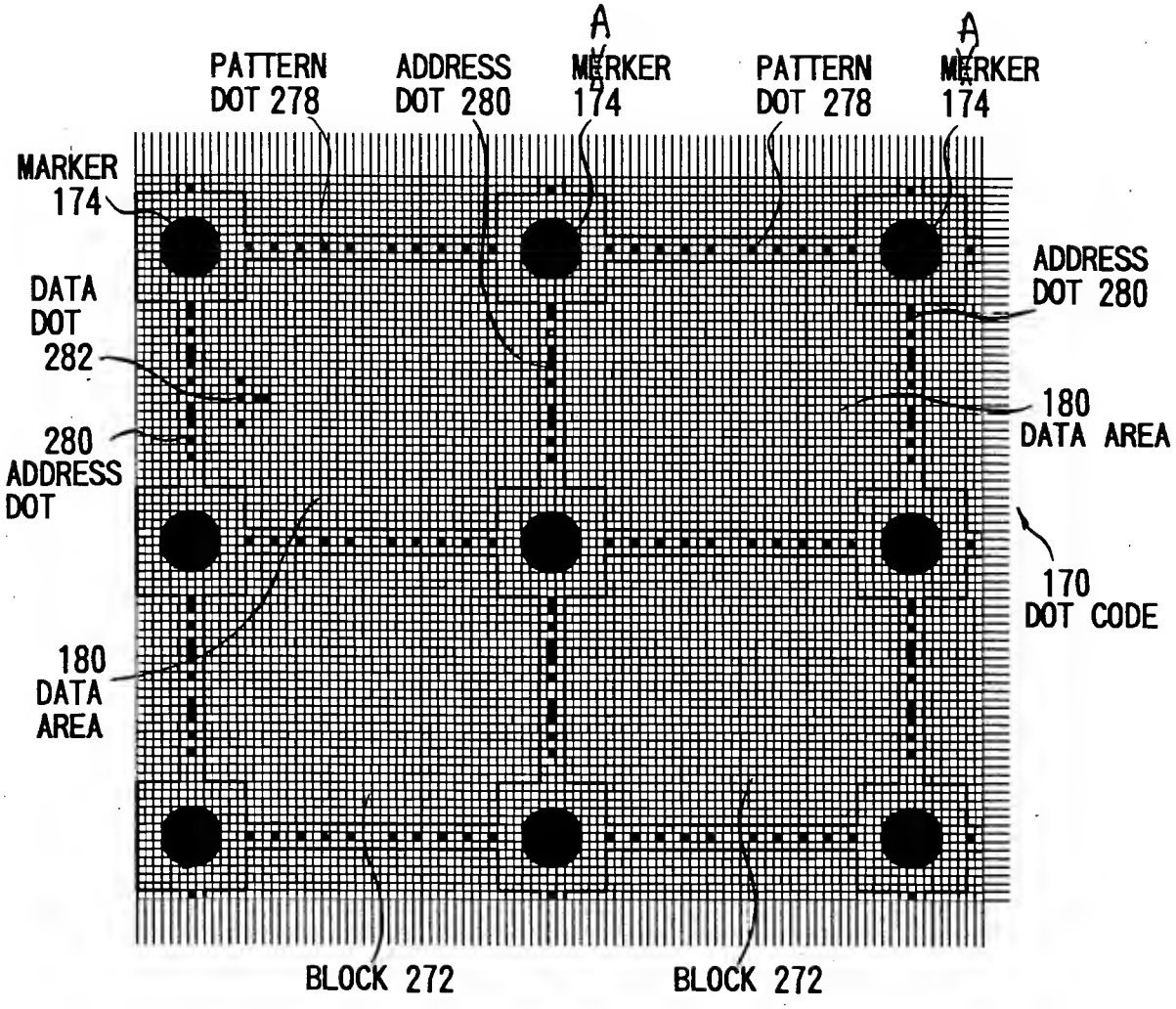


FIG. 3

PRIOR ART

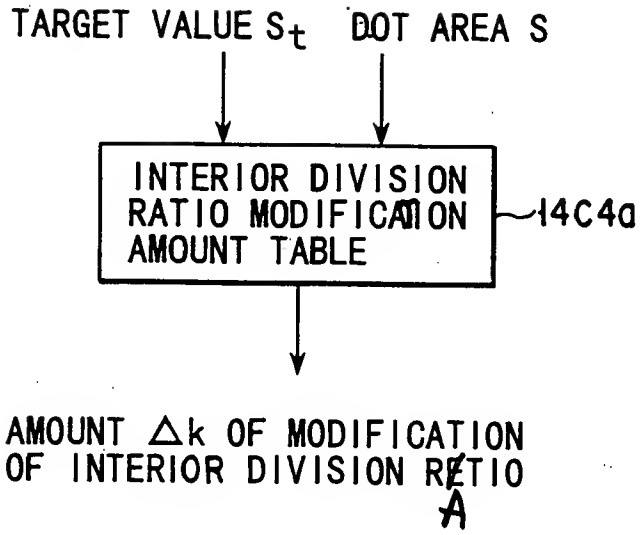


FIG. 36A

INTERIOR DIVISION RATIO MODIFICATION AMOUNT TABLE 14C4a

S_t \ S	6.0	6.5	7.0	7.5	8.0	8.5
6.0		-0.06	-0.13	-0.20	-0.28	-0.37
6.5	0.05		-0.07	-0.14	-0.21	-0.29
7.0	0.11	0.06		-0.08	-0.15	-0.22
7.5	0.17	0.12	0.07		-0.09	-0.16
8.0	0.24	0.18	0.13	0.08		-0.10
8.5	0.32	0.25	0.19	0.14	0.09	

IF MEASURED DOT AREA IS 7.0 AND TARGET VALUE IS 8.0, THE AMOUNT OF MODIFICATION OF INFERIOR DIVISION RATIO IS $\Delta k = 0.13$ IN ACCORDANCE WITH THE TABLE

FIG. 36B

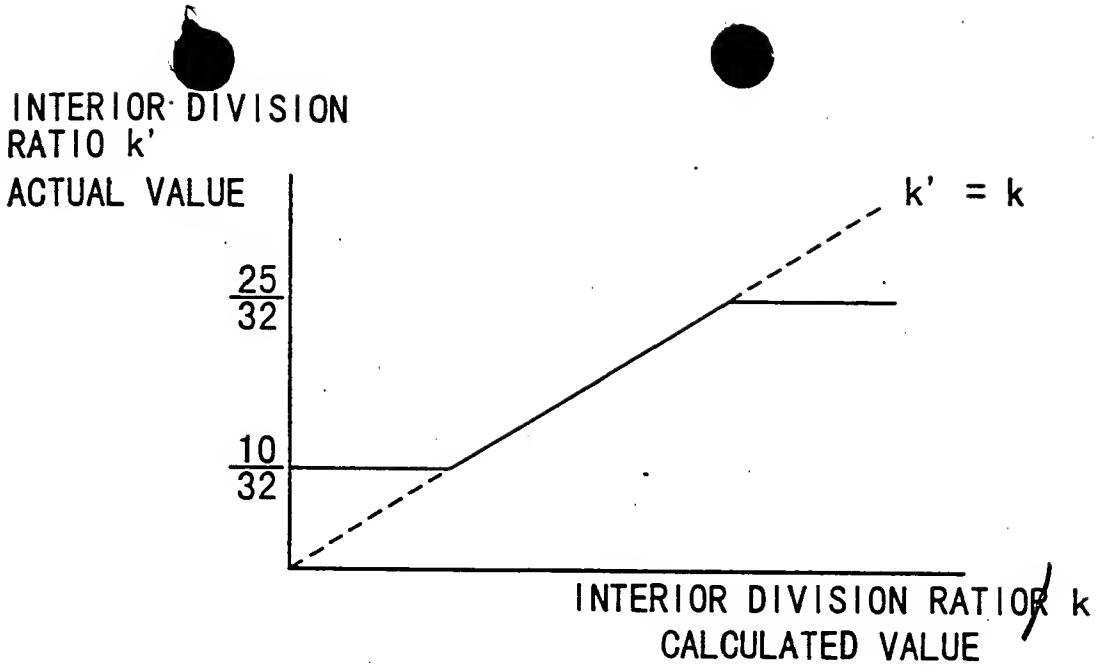


FIG. 41

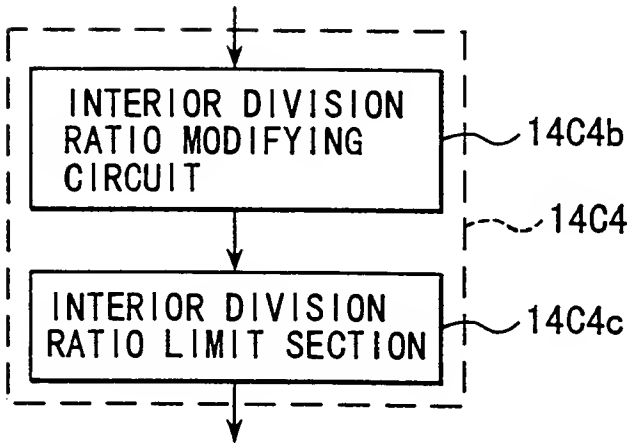


FIG. 42

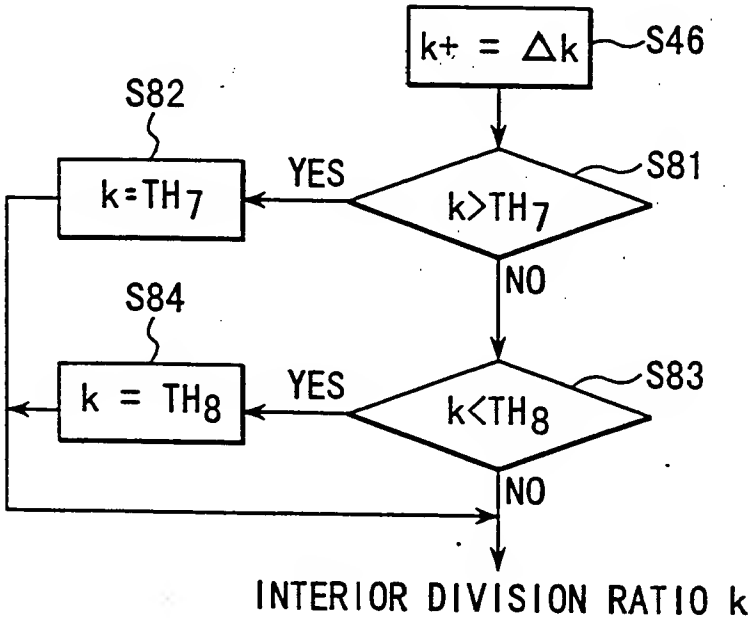


FIG. 43

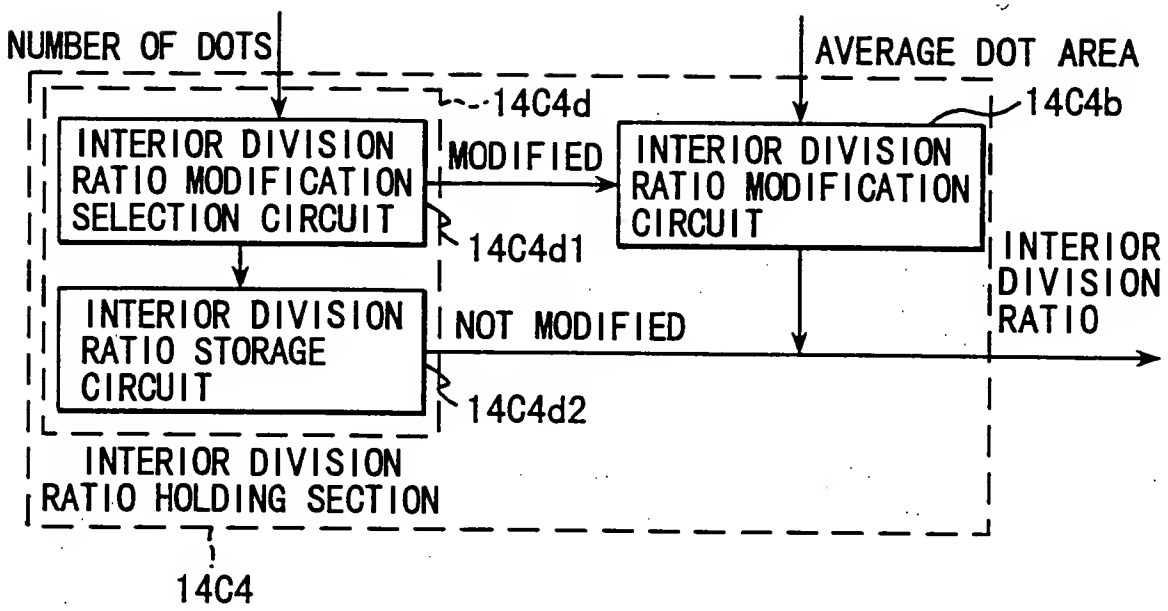

NUMBER OF DOTS
AVERAGE DOT AREA
14C4d
14C4b
INTERIOR DIVISION RATIO MODIFICATION SELECTION CIRCUIT
MODIFIED
INTERIOR DIVISION RATIO MODIFICATION CIRCUIT
14C4d1
INTERIOR DIVISION RATIO
INTERIOR DIVISION RATIO STORAGE CIRCUIT
NOT MODIFIED
14C4d2
INTERIOR DIVISION RATIO HOLDING SECTION
14C4

FIG. 44

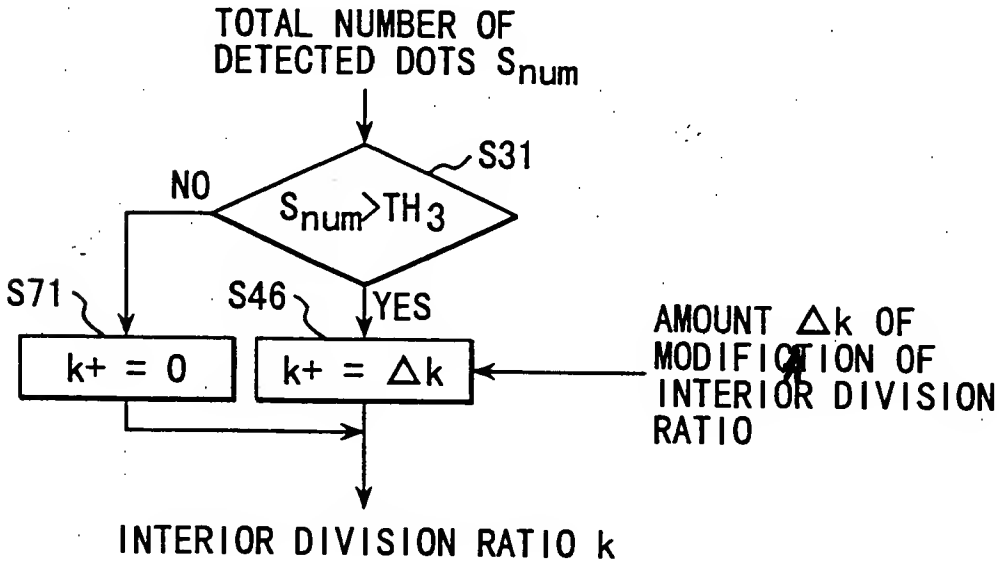

TOTAL NUMBER OF DETECTED DOTS S_{num}
S31
NO
$S_{num} > TH_3$
S71
S46
YES
k+ = 0
k+ = Δk
AMOUNT Δk OF MODIFICATION OF INTERIOR DIVISION RATIO
INTERIOR DIVISION RATIO k

FIG. 45

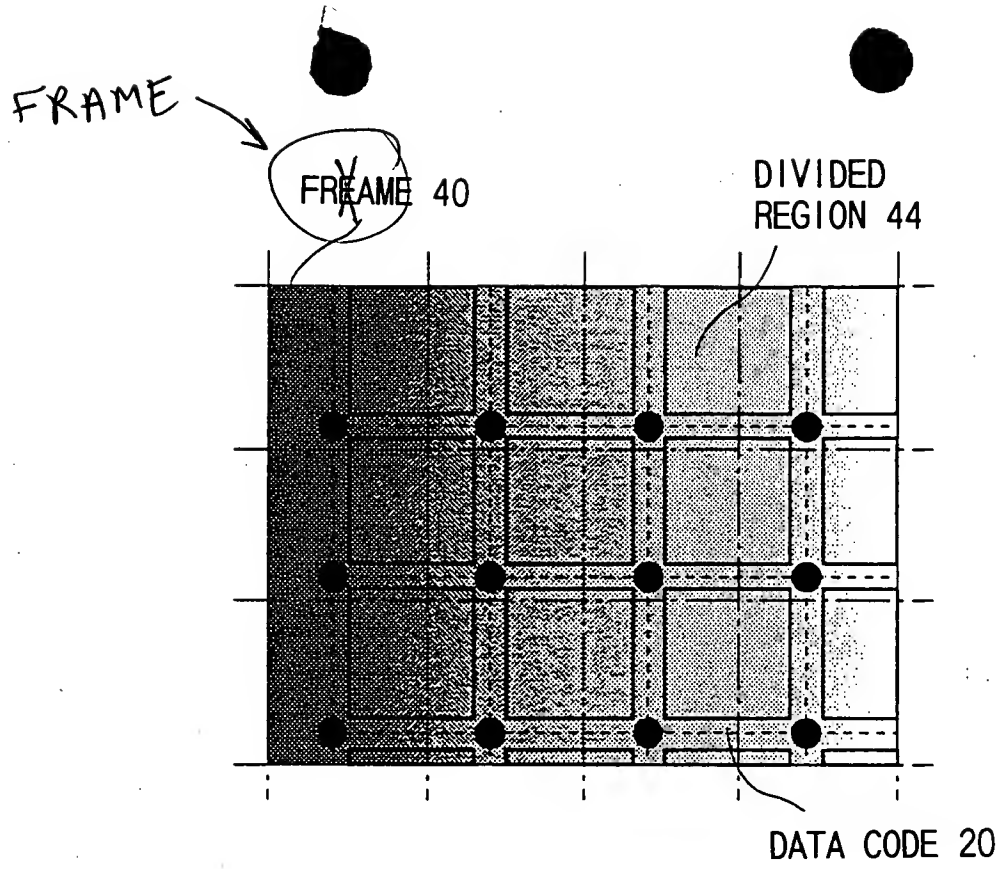

FRAME
FRAME 40
DIVIDED
REGION 44
DATA CODE 20

FIG. 49

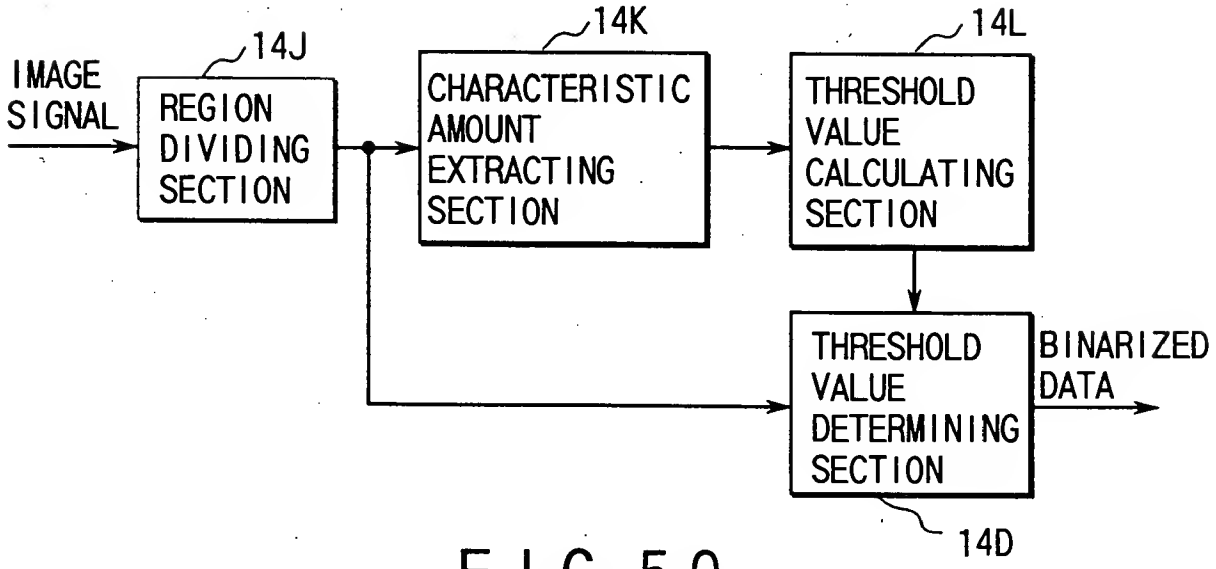


IMAGE
SIGNAL
14J
REGION
DIVIDING
SECTION
14K
CHARACTERISTIC
AMOUNT
EXTRACTING
SECTION
14L
THRESHOLD
VALUE
CALCULATING
SECTION
THRESHOLD
VALUE
DETERMINING
SECTION
BINARIZED
DATA
14D

FIG. 50

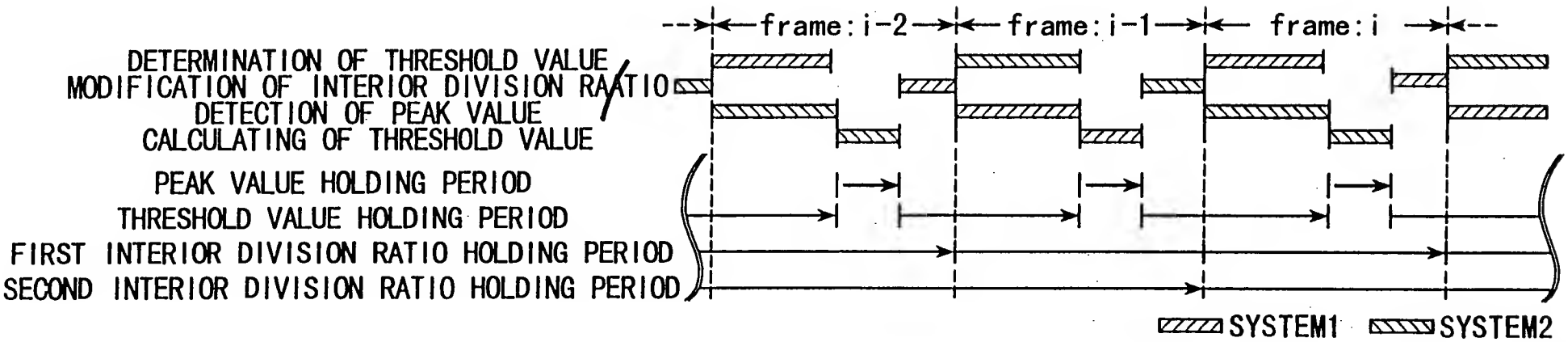

frame:i-2
frame:i-1
frame:i
DETERMINATION OF THRESHOLD VALUE
MODIFICATION OF INTERIOR DIVISION RATIO
DETECTION OF PEAK VALUE
CALCULATING OF THRESHOLD VALUE
PEAK VALUE HOLDING PERIOD
THRESHOLD VALUE HOLDING PERIOD
FIRST INTERIOR DIVISION RATIO HOLDING PERIOD
SECOND INTERIOR DIVISION RATIO HOLDING PERIOD
SYSTEM1
SYSTEM2

FIG. 67